HISTORIC PROPERTY INVENTORY FORM

HISTORIC PROPERTY INVENTORING SECTION Field Site No. Site Name Historic Common Field Recorder Owner's Name Address City/State/Zip Code PROPERTY INVENTORING 184-N OAHP No. Plant Service Power House Plant Service Power House U.S. Department of Energy, Richland P.O. Box 550 Richland, WA 99352	Date Recorded 13-Feb-95	Office of A 111 21st A Olympia, N LOCATION SECTION Address 100-N Reac City/Town/County/Zip Code Twp. 14N Range 26E Tax No./Parcel No.	Vashington, Department of Community Development Archaeology and Historic Preservation Avenue Southwest, Post Office Box 48343 Washington 98504-8343 (206)753-4011 Ctor Area, Building 184-N Richland, WA/Benton County/99352 28 I/4 Section NE 1/4 1/4 Sec SW Acreage
Status X Survey/Inventory National Register State Register Determined Eligible Determined Not Eligible Other (HABS, HAER, NHL) Local Designation	Photography Photography Neg. No. 94010643-27cn (Roll No. & Frame No.) View of West Corner Date Jan. 1995		oyote Rapids 7.5 min. series Easting 303974 Northing 5172485 Buildings
Classification District Status NR SR Contributing X Non-Contribut District/Thematic Nomination Nan Hanford Site	X Building Structure Object LR INV ing Manhattan Project and Cold War Era Historic District		
Description Section Materials & Features/Structural Types Building Type Plan Structural System No. of Stories Cladding (exterior Wall Surfaces Log Horizontal Wood Siding Rustic/Drop Clapboard Wood Shingle Board and Batten	Roof Type Gable Hip X Flat Pyramidal Monitor Gambrel Shed Roof Material Wood Shingle Wood Shake Composition Slate Tar/Built-up		
Vertical Board Asbestos/Asphalt Brick Stone Stucco Terra Cotta Concrete/Concrete Block Vinyl/Aluminum Siding X Metal (specify) Other (specify) (Include detailed description in	Tile Metal (specify Other (specify) X Not visible Foundation Log Concrete Post & Pier Block Stone X Poured Brick Other (specify) Not visible	High Styles/Forms (Check one of Greek Revival Gothic Revival Italianate Second Empire Romanesque Revival Stick Style Queen Anne Shingle Style Colonial Revival Beaux Arts/Neoclassical	Spanish Colonial Revival/Mediterranean Tudor Revival Craftsman/Arts & Crafts Bungalow Prairie Style Art Deco/Art Moderne Rustic Style International Style Northwest Style Commercial Vernacular
Integrity Description of Physical Appointment Intact Changes to plan Changes to windows Changes to original cladding Changes to interior Other (specify)		Chicago/Commercial Style American Foursquare Mission Revival Vernacular House Types Gable Front Gable Front and Wing Side Gable	Residential Vernacular (see below) X Other (specify) Industrial Vernacular Cross Gable Pyramidal/Hipped Other (specify

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

Agriculture	Conservation	Politics/Government/Law	
Architecture/Landscape Architecture	Education	Religion	
Arts	Entertainment/Recreation	Science & Engineering	
Commerce	Ethnic Heritage (specify)	Social Movements/Organizations	
Communications	Health/Medicine	Transportation	
Community Planning/Development	Manufacturing/Industry	X Other (specify) Manhattan Project & Cold War Era	
	Military	X Study Unit Sub-Theme(s) (specify)	
		Cold War/Nuclear Fuel Production	
Statement of Significance		Reactor Operations, Power Generation	
Date of Construction 1964	Architect/Engineer/Builder General Electric/Burns and Roe		
X In the opinion of the surveyor, this property appears	s to meet the criteria of the National Register of Historic Places.		
X In the opinion of the surveyor, this property is locate	ed in a potential historic district (National and/or local).		

AC power was supplied to the N Plant from two sources: offsite power originating from the Bonneville Power Administration via the Midway Substation (A Bus) and onsite power originating from the 184-N Plant Service Power House (B Bus). The 151-N Electrical Substation housed the A Bus transformer which converted the 230 kV from Midway to 13.8 kV for use at the N Plant. The A Bus supplied electrical power for start-up operations and supplied power when the reactor was shut down. Once the N Reactor was operating and producing steam, AC power was supplied via the onsite turbine generator located in the 184-N Building, which generated 13.8 kV for the B Bus.

The 184-N Building was the primary source for process steam and electrical power for routine and emergency operations at the 100-N Area. The building housed a 15,000-kV turbine generator which could be driven by either reactor-produced steam or by its own oil-fired 575,000 Btu/hr (7.96525 x E+08 Jules/hr) boiler. The building also housed air compressors and associated equipment.

This property is not associated with an important person (Criterion B), does not possess any distinctive architectural features or methods of construction (Criterion C), and does not qualify under Criterion D as the principal source of important information. However, the 184-N Building qualifies under Criterion A due to its association with the Cold War production of plutonium at N Reactor, and its contribution to Reactor Operations, specifically the Electrical System. Therefore, it is the conclusion of the U.S. Department of Energy that the 184-N Building is eligible under Criterion A for inclusion on the National Register of Historic Places as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

The 184-N Building is a rectangular, four-story, steel framed building with a poured concrete foundation, corrugated metal exterior wall surfaces, and a flat roof. It measures 112 ft by 96 ft by 70 ft (34.1 m by 29.3 m by 21.3 m); 11,328 ft² (1,052 m²). The building is no longer in use and no significant changes have been made to it.

The N Reactor UTM coordinates are as follows: Northeast corner - 303974E, 5172485N; southeast corner - 303974E, 5171639N; southwest corner - 303069E, 5171639N; northwest corner - 303069E, 5172485N.

Major Bibliographic References

Bechtel Hanford, Inc. 1994. "Pre-Existing" Conditions Survey of Hanford Site Facilities to be Managed by Bechtel Hanford, Inc. BHI-00221, Rev. 00, Phase II. Rollie Warner, Engineer, Columbia Energy & Environmental Services, Inc.

Architectural Misc. Details, Drawing No. H-1-31057, 1964.